Foreword by K.A. Hines vii Foreword by G. Wagner ix	
Forword by J.M. Williamson Preface xiii	хi

P.	ART ONE RISK MANAGEMENT FROM THE VIEWPOINT OF A BANKER 1
1	hapter 1 The financial intermediary and the role of risk Introduction 3
2	A definition of risk 6
3	The business of banks and bankers 12
4 5	Raw material in banking: money and electronics 18 Politics, risks and the function of banking 23
	napter 2 Prerequisites to risk management 27
1	Introduction 27
2	Coping with a changing business environment 30
3	Taking risks for competitive reasons 35
4	Risks embedded in a payments system 39
5	Bank liquidity 44
6	Deposit reliability 48
	apter 3 The challenges of global risk 52
1	Introduction 52
2	The global financial market 55
3	Follow-the-sun overdraft and financial integrity 60
_	Reserves and cash flow 65
	Off-balance sheet and off-budget 70
6	Regulating the off-balance sheet accounts 75
Ch	apter 4 The management of risk 80
1	Introduction 80
2	Analytical methods for the control of risk 84
3	Integrative approaches to risk management 89
4	The role of expert systems in the control of risk 93
5	Are leading banks in America and Europe well ahead
	in risk management? 97
6	Commercial and financial paper 99

Chapter 5 A model for the management of risk 104

1 Introduction 104

2 Uncertainty: the bottom line of risk management 105

Chapter 6

Introduction 129

3

4 5

1

Assessing the global database 111

A methodology for the definition of risk tolerances 116

Risk-taking in investment banking 129

The robotization of a risk-management solution 122

	2 Betting on ton management 121
	- 1 acing the risk in fraction 120
	The quality control to risk many
•	
	Chapter 7 Commercial banking and its risks 155
_	
	Credit and the act of landing 157
3	Losses and fraud in the loans industry 164
4	The burning issue of acrising 164
5	The burning issue of savings and loans The American towards are the control of th
6	
7	A case study in incompetence: Third World debt 176 Exploiting the debtor power 170
•	Exploiting the debtor power 179
•	n
1	hapter 8 The bank as a network 182
1	introduction 187
2	
3	Dianch Offices and globalization and
4	A THE COSE OF MOREY 100
5	Beware of labor costs 203
P	ART TWO THE TECHNICION
	TILL IECHNOLOGIST'S COMPRESSION
	TO RISK MANAGEMENT 209
CI	
1	Papter 9 A mission for Chief Technology Officers 211
2	Introduction 211
3	Defining a new infrastructure 214
4	Trail Bilect S Focket scientists 210
5	Owbolcollillillers in how! Ass
)	Technology transfer: an AI example 228
Ch	apter 10 Foremost financial institute
	apter 10 Foremost financial institutions deploy their technology Introduction 224
1	Introduction 234
2	Traders' and programment
3	Productivity investments workstations 235
4	Productivity investments and expected return 240 Inhouse networks for the new generation of workstations 245 Improving user service through visualizations 245
5	Improving works for the new generation of workstations 245
•	Improving user service through visualization and process
	automation 251
Ch-	mton 11 cm
-III	pter 11 The growing role of intelligent networks in financial technology 256
1 1	
1	Introduction 256

- 2 Global trading and 24-hour trading 258
- 3 A common frontier between Forex and Securities 262
 - From data processing to knowledge processing 269
- 5 A new wave of electronic banking services and the community intelligence 274

Chapter 12 Imaging, electronic document handling and the role of expert systems 280

- 1 Introduction 280
- 2 Fertile fields for image processing 281
- 3 Great Western and Security Pacific 288
- 4 Imaging applications in other financial institutions 291
- 5 Applying expert systems with optical disk implementation 297

Chapter 13 Distributed databases assisted through artificial intelligence 305

- 1 Introduction 305
- 2 Financial institutions look at the database problem 306
- 3 The Intelligent Database Assistant (IDA) by GTE 312
- 4 Using the California Intelligent Database Assistant (CALIDA) 318
- 5 Public databases and competitive intelligence 323

Chapter 14 Repositories and computer-assisted software engineering 326

- 1 Introduction 326
- 2 Who wants to deal with old programs? The OfficeVision trap 328
- 3 It is time to finish with systems 360 and 370 333
- 4 The IBM repository, artificial intelligence, databases and electronic messaging 337
- 5 Computer-aided software engineering requires a coherent conceptual solution and a new culture 342

Chapter 15 A corporate memory facility using objects and semantic models 347

- 1 Introduction 347
- 2 The rationale behind a corporate memory facility 348
- 3 Implementation in a banking environment 353
- 4 Knowledge-based systems in project management 358
- 5 Applying object-oriented databases and using metamodels 364
- 6 The change toward semantic data models 366

Index 373